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(54) FLUID TRANSPORT PIPE

(57) Abstract:

PURPOSE: To realize reduction of weight, detection of breakdown of a reinforcing layer, and temperature preservation and heating of a transport fluid by providing a plastic pipe on a metallic interlock pipe, and providing a carbon fiber reinforcing layer thereon, and providing an outer sheath on the carbon fiber reinforcing layer.

CONSTITUTION: This is composed of a flexible composite pipe 1, that is, the metallic interlock pipe 2, where an metallic tape whose cross section is S-shaped, for example, a steel tape is wound into tubular shape and uneven parts are engaged with each other, a plastic pipe 3 which is made on the interlock pipe 2 by extrusion coverage, or the like, carbon fiber reinforcing layers 4 and 5, which are provided on the plastic pipe 3, and an outer sheath 6 of plastic, which is provided on these reinforcing layers 4 and 5. As a result,

sharp weight reduction of a fluid transport pipe is realized. Moreover, abnormality such as thinning of the reinforcing layer, breakdown, etc. is detected by the change of electric resistance.

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